

MARINE CORPS WARFIGHTING LABORATORY

QuikClot is a sterile, traumatic wound treatment that rapidly arrests high-volume blood loss and achieves hemostasis in large wounds, arresting hemorrhage. QuikClot speeds coagulation in moderate-to-severe wounds, including high-volume venous and arterial bleeding. Made of a granulated mineral substance, it is biologically and botanically inert, leaving little chance of allergic reaction. It represents an opportunity to save the lives of trauma victims who would otherwise bleed to death before they could be moved to an operating room setting.

Background: QuikClot speeds the coagulation of blood, even in large wounds, through a very simple process. It physically absorbs the liquid from blood, thereby concentrating the clotting factors and encouraging rapid clotting to stop bleeding. QuikClot's effectiveness has been tested at the University of Connecticut, the US Marine Corps Warfighting Laboratory, the Marine Corps Systems Command and the Office of Naval Research. QuikClot has already been given FDA pre-market clearance.

Description: An extremely 'thirsty' material, QuikClot is derived from minerals. When poured directly into an open wound, the product acts like a sponge, instantly extracting fluid from the blood in and around the wound. This lack of fluid leaves behind concentrated clotting materials, allowing the blood to clot very quickly and preventing severe blood loss. The process represents a new approach to hemostasis, in which elements are extracted to halt bleeding rather than typically adding clotting factors. It contains no biological or botanical substances, which eliminates the danger of an allergic reaction or transmission of disease. It is safe to leave in the wound and will stay firmly in place until it is removed in the

QUIKCLOT *fact sheet*



field hospital or operating room setting. Military price is under \$10 per packet, far less than other hemostatic products. QuikClot packaging has a net weight of 3.5 ounces, is vacuum packed in a sterile, compact and waterproof. QuikClot comes in a 5 inch by 7 inch packet and is heat sealed on all four sides. The top of the packet has an easy to tear notch for quick access. Labeling on both front and back includes instructions, diagrams, and warnings. A wounded Marine himself, or his buddy, can administer QuikClot while waiting for a Medical Corpsman to reach them. Packaging allows for easy, one-handed opening and application.

Deliverable Products: A product which will stop or curtail moderate to massive bleeding in order to improve survival and reduce the delayed effects of Hemorrhagic Shock.

info: **Public Affairs Office:** (703) 784-5170
DTD: April 29, 2003



3255 MEYERS AVENUE
QUANTICO, VA 22134
WWW.MCWL.QUANTICO.USMC.MIL